

Ameren Illinois 4th Quarter 2012 Smart Grid Test Bed Report

February 14, 2013

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Executive Summary

Ameren Illinois Company (Ameren Illinois) submits the following Smart Grid Test Bed Quarterly Report in accordance with the Energy Infrastructure Modernization Act, 220 ILCS 5/16-101 et seq. ("the Act"). This report provides updates on the steps Ameren Illinois has taken to implement its test bed plan during the fourth quarter of 2012. The report includes information on activities Ameren Illinois has undertaken to design and construct its "primary" test bed location, discussions with potential test bed customers, and on the testing application process.

Test Bed Cost and Construction Status

Status

The completion status for the "primary" Technology Applications Center (TAC) location is as follows:

Engineering Design = 95% Site Construction = 20% Site Survey = 100% Equipment Purchases = 70%

Actual Costs

Provided below are the actual costs incurred through December 31, 2012 for the primary test bed location:

Work Order	Description	Cost
J00BM	Design and construction of substation and control building	\$937,075
J00LR	Design and construction of distribution feeders on "primary" TAC site	\$69,800
J0022S- J0242	Acquisition of testing infrastructure tools	\$88,312
	Total Actual Costs for 2012	\$1,095,187

Estimated - Timeline/Schedule - Primary TAC location

• Site Prep & Foundations: Start - 10/10/12 Finish - 01/15/2013

• U/G Infrastructure: Start - 01/15/2013 Finish - 04/01/2013

• Overhead Infrastructure: Start - 03/01/2013 Finish - 04/01/2013

Control Building: Start – 01/15/2013 Finish – 04/01/2013

Notes:

1. Estimated in-service of "primary" TAC is currently April 1, 2013.

2. Estimated in-service of "secondary" TAC is November 15, 2012.

Test Bed Interest

- Since the last Quarterly Report, Ameren Illinois has received an application from a major utility equipment provider. This application requests that Ameren Illinois install several distribution system devices and control systems for the purpose of testing the Distribution Automation and Volt-Var Equipment & Controls across multiple distribution feeders. Currently the TAC Staff is reviewing the application to determine how to implement the equipment on Ameren Illinois' distribution system to gain the best evaluation.
- Ameren Illinois also had a discussion with another utility equipment provider regarding a
 possible installation of control equipment that could be used to perform Distribution
 Automation and Volt-Var controls. At present, Ameren Illinois has not received a formal
 application for this project.

Smart Grid Test Bed Plan Success

Ameren Illinois' commitment to the successful implementation of its Smart Grid Test Bed plan is strong. However, as set forth above, Ameren Illinois reserves the right to modify, amend or alter this plan, as necessary and consistent with the law, to meet the requirements and objectives of the EIMA and other related provisions. Additionally, Ameren Illinois reserves its right to terminate this plan